

**Claims**

[001] Method for the production of a white LED having predetermined color temperature, in which a blue LED or a UV LED is coated with a conversion layer which absorbs blue light or UV light and emits light of greater wavelength, characterized in that the exact wavelength of the LED is determined before the application of the color conversion agent and then the color conversion agent is applied over this LED in a quantity and/or concentration dependent upon the determined wavelength.

[002] Method according to claim 1, characterized in that the color conversion agent is applied in per se known manner by means of dispenser or stamp and the quantity and/or the concentration is selected in dependence upon the determined wavelength.

[003] Method according to claim 1, characterized in that the color conversion agent is applied in per se known manner by means of inkjet printing and the quantity and/or the concentration is selected in dependence upon the determined wavelength.

[004] Method according to claim 1, characterized in that the color conversion agent is applied in per se known manner by means of deposition from the gas phase and the quantity and/or concentration is selected in dependence upon the determined wavelength.

[005] Method according to claim 4, characterized in that a mask, in particular a photomask, is produced, the apertures of which are selected in dependence upon the determined wavelength, and in that the deposition of the color conversion agent from the gas phase is effected through this mask.

[006] Method according to claim 1, characterized in that the color conversion agent is initially homogeneously applied in per se known manner and then selectively removed by means of a laser in dependence upon the determined wavelength.

[007] White LED light source, which has a plurality of blue LEDs or UV LEDs, above which a conversion layer is applied, characterized in that the quantity of the conversion layer above each LED depends upon the exact wavelength of the LED concerned.